

REMARKS

This Reply is in response to the Office Action mailed on October 8, 2008 in which a restriction requirement was imposed upon claims 87-93. Based upon the Examiner Interview held on November 5, 2008, Applicants retain the previous election of the Species of Figure 12. This response further provides support for the reading of previously added claims 88-93 upon a previously elected Species of Figure 12. Claims 1-9, 12-19, 21, 25-29, 31-39, 41-48 and 87-93 are presented for consideration and allowance.

I. Examiner Interview Summary

On November 5, 2008, telephonic interview was held between Examiner Chang and Applicant's attorney, Todd A. Rathe. Applicants requested clarification regarding the apparent new election of species requirement as between Figures 13 and 15 given that Applicants had already previously elected the species of Figure 12 in response to a previous restriction requirement. Examiner Chang clarified that his real concern was that he was unable to identify in Figure 12 where the recited "depression" of added claims 88-93 could be found. Examiner Chang indicated that the two actual options for maintaining the previous election of the Species of Figure 12 and for responding to the requirement would be either (1) cancel claims 88-93 as being drawn to a non-elected species or (2) indicate where support for the recited "depression" is found with respect to the previously elected species of Figure 12. An election of species as between Figures 13 and 15 would not be necessary if either the two options were chosen.

II. Support for added claims 88-93 with respect to the previously elected Species of Figure 12.

Applicants respectively note that support for the recited "depression" set forth in claim 88-93 is found in Figure 12 and in Paragraph [0045]. In particular, Paragraph [0045] indicates that:

These additional pairs can be aligned with the interconnect 602 with the aid from additional holes replacing the spacer 402, like a square hole 800 shown in Figure 8.

Figure 8 is a top plan view of interconnect 602 (an example which is also shown in Figure 12). In discussing Figure 8, Paragraph [0030] recites:

Referring to FIG. 8, a top plan view of the interconnect 602 that is designed to surround the spacer substrate 402 is shown. Here the interconnect 602 has a square hole 800 designed to fit around the spacer substrate 402. This negative of the spacer substrate's 402 projecting shape can be used to aid in orienting the interconnect 602 to the device 302. If the interconnect 602 is to be oriented with multiple dense circuit devices, the interconnect 602 can comprise multiple negatives to aid in orienting, such as with other square holes (not shown). Other shapes of the spacer substrate 402, the device 302, and the interconnect 602 can also be used. This top plan view of FIG. 8 shows width and length dimensions of the wires 604. The wires 604 have a breadth shown generally with the numeral 802. The wires 604 are separated from similarly oriented neighbors by a space, shown generally with numeral 804. The breadth 802 and the space 804, at the point where the wires 604 are to contact the pads 304, corresponds approximately with the pad breadth 702 and the pad space 704. In the ongoing example, the breadth and space 802 and 804 of the wires 604 is about 30 nanometers.

Thus, the specification as well as Figure 8 and Figure 12 illustrate an electrical interconnect 602 having a hole 800 into which a projection 402 is oriented. A "hole" inherently constitutes a "depression." However, to avoid further confusion, claims 88 and 89 are amended to replace the term "depression" with the term "hole" which is specifically called out in the specification.

Since added claims 88-93 have support in the specification and read up on the previously elected species of Figure 12, there addition is believed to be proper. Per the Examiner Interview and the Examiner's clarification of what is needed to respond to the Office Action, Applicants request consideration of all of claims 1-9, 12-19, 21, 25-29, 31-39, 41-48 and 87-93.

III. Conclusion

After amending the claims as set forth above, claims 1-21, 25-48 and 87-93 are now pending in this application.

Applicants believe that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 08-2025. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 08-2025. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicants hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 08-2025.

Respectfully submitted,

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